

Notice of Allowability

Application No.

10/809,894

Examiner

Vibol Tan

Applicant(s)

KOTO, TOMOHIKO

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2819

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 3/7/06.
2. ☒ The allowed claim(s) is/are 2-16.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: in combination with other limitations of the claims, the cited prior arts fail to teach the ratio between the gate length and the gate width of one of the transistors in each pair of the series-connected MOS transistors is about three times or less than the ratio between the gate length and the gate width of the other one of the transistors in the pair of the series-connected MOS transistors such that fluctuation of a voltage level of the differential amplification output signal is suppressed and fluctuation of delay time of the differential amplification output signal is in a predetermined time period regardless of a chance in voltage levels of the first and second input signals, as recited in currently amended claims 2 and 15; the cited prior arts also fail to teach a fifth MOS transistor connected between the differential amplification circuit and the node connecting the first and second MOS transistors, as recited in previously amended claim 8; the cited prior arts also fail to teach a fifth MOS transistor having a gate for receiving a current restriction signal, a source connected to one of the first and second power supplies, and a drain connected to the gates of the first and fourth MOS transistors, as recited in previously amended claims 9 and 11; the cited prior arts also fail to teach a P-type fifth MOS transistor having a gate for receiving a current restriction signal, a source connected to the one of the first and second power supplies at which the potential is greater, and a drain connected to the gates of the first and fourth MOS transistors, as recited in previously amended claim 12; the cited prior arts also fail to teach the first to fourth MOS transistors of the level conversion circuit each being provided with a gate

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voltage capacity that is greater than the gate voltage capacity of each MOS transistor in the differential amplification circuit, as recited in previously amended claim 13; and the cited prior arts also fail to teach the first to fourth MOS transistors of the level conversion circuit each being provided with a gate voltage capacity that is greater than the gate voltage capacity of each MOS transistor in the differential amplification circuit, as recited in previously amended claim 14.

2. Claims 2-16 are now in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vibol Tan whose telephone number is (571) 272-1811. The examiner can normally be reached on Monday-Friday (7:00 AM-4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rexford Barnie can be reached on (571) 272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Vibol Tan', with a long horizontal stroke extending to the right.

VIBOL TAN
PRIMARY EXAMINER